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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/645,482	08/22/2003	Jae-Hyon Kim	1349.1287	8728	
21171 STAAS & HA	7590 02/05/200° LSEY LLP	7	EXAMINER		
SUITE 700			CORRIELUS, JEAN B		
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005 ART UNIT PAPER		PAPER NUMBER			
			2611		
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
2 MO	NTHS	02/05/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/645,482	KIM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jean B. Corrielus	2611				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nety filed the mailing date of this communic D (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 22 A	<u>ugust 2003</u> .					
2a) This action is FINAL . 2b) This	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merit	s is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-14 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1 and 2</u> is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) <u>3-14</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152	2.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicati	on No				
Copies of the certified copies of the prior	•	ed in this National Stage				
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Claim Objections

1. Claims 3-14 are objected to because of the following informalities: claim 3, line 2, after "calculator", "further" needs to be inserted. Claim 6, line 4 recites "a fourth adder" however, there is no previous limitation to a first, second, and third adders. Claim 7, line 1, after "calculator", "further" needs to be inserted; line 5 recites "a fifth adder" however, there is no previous limitation to a first, second, third and fourth adders; line 5, "the output signal of the predetermined level" should be replaced by "the stored kth field synch signal of the predetermined level outputs from the decision unit" so as to be consistent with antecedent; line 6, "value" should be replaced by "values" so as to be consistent with antecedent. Claim 14 is equivalent to claim 7, therefore claim 14 should similarly amended as claim 7. Claim 8, line 10, "and" should be replaced by "wherein the"; last line, before "multi-paths", "the" should be replaced by "filters the received" should be inserted. Claim 9, after "N", "," should be deleted; line 4, "and" should be replaced by "wherein the"; line 5, "of" should be replaced by "calculates". Claim 10, line 4, "and" should be replaced by "wherein the"; line 5, after "calculating, "calculates" needs to be inserted. Claim 11, line 1, before "method", "equalization" should be deleted so as to be consistent with antecedent. The same comment applies to claims 12-13, respectively. Note that any claim whose base claim is objected is likewise objected. Appropriate correction is required.

Allowable Subject Matter

2. Claims 1-2 are allowed.

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3. Claims 3-14 would be allowable if amended to overcome the objection set forth above.

Conclusion

4. This application is in condition for allowance except for the formal matters note above.

Prosecution on the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is 571-272-3020. The examiner can normally be reached on Maxi-Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jean B Corrielus
Primary Examiner
Art Unit 2611

2-1-07